



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Lincoln et al  
Serial No. : To Be Assigned  
Filed : May 15, 2001  
Title : MODELING BIOLOGICAL SYSTEMS

Art Unit : Unknown  
Examiner : Unknown

Commissioner for Patents  
Washington, D.C. 20231

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BP  
6-17-02

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449, copies of which are enclosed.

This statement is being filed with the application. Please apply any charges or credits to Deposit Account No. 06-1050, citing attorney docket number 10454-016001.

Respectfully submitted,

Date: \_\_\_\_\_

5/15/01

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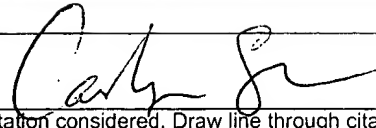
Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 10454-016001	Application No. To Be Assigned
	Applicant Lincoln et al			
	Filing Date May 15, 2001		Group Art Unit <u>1631</u> To Be Assigned	

 1033 U.S. PTO  
09/855458  
05/15/01


U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
CS	AA	5,113,342	May 12, 1992	Zamora	364	419	
↓	AB	5,914,891	Jun. 22, 1999	McAdams et al	364	578	
↓	AC	6,132,969	Oct. 17, 2000	Stoughton et al	435	6	

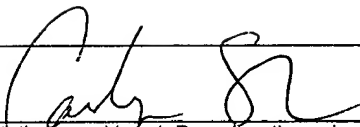
Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
CS	AD	WO 99/66067	23 Dec. 1999	PCT WIP0				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AE	<del>Akutsu et al., "Identification of Genetic Networks From a Small Number of Gene Expression Patterns Under the Boolean Network Model," Bioinformatics</del>
CS	AF	Akutsu et al., "Inferring qualitative relations in genetic networks and metabolic pathways," Bioinformatics, 16:8 (2000) 727-734
↓	AG	D'haeseleer et al., "Genetic network inference: from co-expression clustering to reverse engineering," Bioinformatics, 16:8 (2000) 707-726
↓	AH	Peter D. Karp, "An ontology for biological function based on molecular interactions," Bioinformatics (2000) 16:269-285
↓	AI	Kurt W. Kohn, "Molecular Interaction Map of the Mammalian Cell Cycle Control and DNA Repair Systems, Molecular Biology of the Cell Vol. 10 (1999) 2703-2734
	AJ	<del>Liang et al., "Reveal, A General Reverse Engineering Algorithm for Inference of Genetic Network Architectures," Proc. Pacific Symp. On Biocomputing 3:18</del>
CS	AK	McAdams et al., "Circuit Simulation of Genetic Networks," Annu. Rev. Viophys. Biomol. Struct. (1998) 27:199-224
↓	AL	Ogata et al., "Computation with the KEGG pathway database," BioSystems, (1998) 47:119-128
↓	AM	Ouzounis et al., "Global Properties of the Metabolic Map of Escherichia coli," Genome Research (2000) 10:568-578
↓	AN	Owre et al., "PVS: A Prototype Verification System," Automated Deduction (1992) 607:748-752
↓	AO	Shea et al., "The O <sub>R</sub> Control System of Bacteriophage Lambda A Physical-Chemical Model for Gene Regulation," J. mol. Biol (1985) 181:211-230
↓	AP	Somogyi et al, "Modeling the Complexity of Genetic Networks: Understanding Multienic and Pleiotropic Regulation," Complexity (1996) 1:45-64
↓	AQ	Stroud et al., "Annual Review of Biophysics and Biomolecular Structure," Annual Reviews (1998) Vol. 27
↓	AR	Rene Thomas, "Regulatory Networks Seen as Asynchronous Automata: A Logical Description," J. theor. Biol. (1991) 153:1-23

Examiner Signature 	Date Considered 3/18/03
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10454-016001	Application No. To Be Assigned
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(37 CFR §1.98(b))			

Other Documents (include Author, Title, Date, and Place of Publication)		
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CS	AS	Thomas et al., "A Complex Control Circuit, Regulation of Immunity in Temperature Bacteriophages Eur. J. Biochem (1976) 71:211-227
↓	AT	Rene Thomas, "Boolean Formalization of Genetic Control Circuits," J. theor. Biol. (1973) 42:563-585
↓	AU	Szallasi et al, "Modeling the Normal and Neoplastic Cell Cycle with "Realistic Boolean Genetic Networks" Their Application for Understanding Carcinogenesis and Assessing Therapeutic Strategies", Proc. Pacific Symp. On Biocomputing (1998) 3:66
↓	AV	Weng et al., "Complexity in Biological Signaling Systems," Science, (1999) 284:92-96
↓	AW	Yuh et al., "Genomic Cis-Regulatory Logic: Experimental and Computational Analysis of a Sea Urchin Gene, Science (1998) 279:1896-1902

Examiner Signature		Date Considered	<u>3/18/03</u>
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